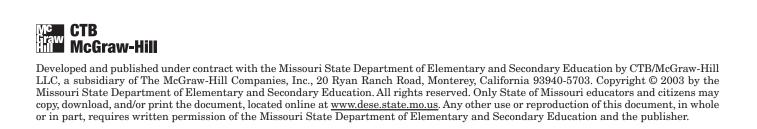
# Missouri Assessment Program Spring 2003

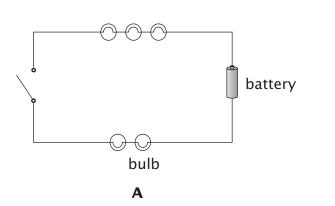
Science

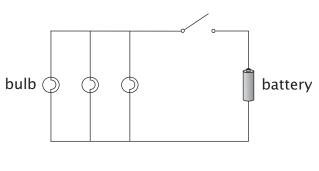
**Released Items** 

Grade 7



**5** Which drawing below shows light bulbs connected in a parallel circuit? \_\_\_\_\_





В

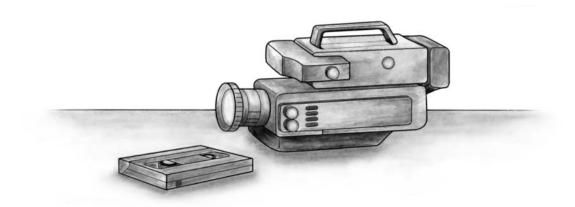
What is an advantage of using a <u>parallel circuit</u> to make a string of decorative (party) lights?

Go On ▶

7	A seventh-grade science team was impressed with a magazine article on body
	language. The team had access to a video camera. Without telling their
	classmates, they videotaped their classmates at lunch through a one-way mirror.

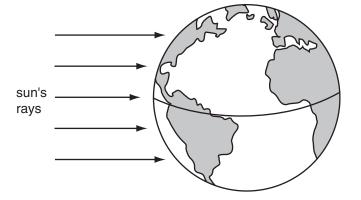
(a)	May they use and publish the information in this video as part of a report?
	Explain your answer.

(b)	How can this team obtain and use videotapes of individuals behaving
	spontaneously at unguarded moments?



Go On ▶

DO NOT WRITE HERE	
DO NOT WRITE HERE ★	
DO NOT WRITE HERE	
TE HERE 4	



Explain why sunlight creates a pattern of decreasing temperature as someone				
moves from the equator toward areas at higher latitudes.				

Go On ▶

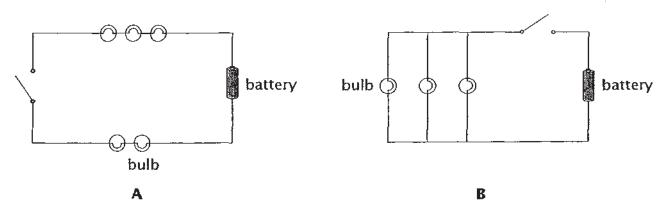
# Missouri Assessment Program Spring 2003

# Science

# **Released Items Scoring Guide**

Grade 7

# 2 Points



What is an advantage of using a <u>parallel circuit</u> to make a string of decorative (party) lights?

If	me	noes	out	the	rest	-or	the	lights	Will	stay
		1	- •	•	ľ					
lite										

Score Point 2

2 Key Elements

>R

>If one bulb goes out, the others will still work

Session: 1 Item: 7 Page: 7

Standard: II.C.1 (Std 8)
Goals: 2.1, 4.4

**Key Elements:** 

(a)\_\_\_\_\_

No

#### **AND**

one of the following:

- No one should do experiments without consent forms from individuals involved.
- Harm in the form of embarrassment or ridicule could happen to individuals involved.
- It is an invasion of privacy.

Note: No, may be implied.

(b)\_\_\_\_\_

Individuals should be asked after the taping and consent should be obtained.

#### OR

Before taping, individuals should be asked for their consent to be videotaped at unguarded and possibly embarrassing moments.

Note: It is possible to have both (a) and (b) answered correctly in (a) if the answer addresses the need for permission. For example: "No, because you have to ask the people."

### **Score Points:**

2 points two key elements 1 point one key element

0 points other

Session: 1 Item: 8 Page: 8

Standard: VII.B.2 (Std 3)

Goals: 1.10

## **Key Elements:**

(a)\_

one of the following:

- Chloroplasts perform photosynthesis.
- Chloroplasts produce sugars/food.
- Chloroplasts give off oxygen.

(b)

two of the following:

- They require sunlight.
- They require carbon dioxide (CO<sub>2</sub>).
- They require water  $(H_20)$ .
- They require minerals.

**Score Points:** 

2 points one key element from (a) **AND** two key elements from (b)

1 point either 1 key element from (a) or 2 key elements from (b) OR 1 key element

from (a) and 1 key element from (b)

0 points other

Session:	1
Item:	13
Page:	11

Standard: VI.B.5 (Std 5)

Goals: 1.10

## **Key Elements:**

Sunlight strikes Earth and its atmosphere more directly at or near the equator than at areas of higher latitude, which heats land/ocean/atmosphere more at or close to the equator than elsewhere.

### OR

any other response that indicates the student's correct understanding of how sunlight effects patterns of decreasing temperature as one goes from the equator toward areas at higher latitude

### **Score Points:**

1 point one key element

0 points other